

Certified Mail 9059 7448

December 4, 2002

Michelle R. McCracken
Environmental Representative
Shell Oil Products US, East Chicago Terminal
P. O. Box 2648, TSP 15
Houston TX 77252-2648

Re: 089-16445-00239
First Significant Permit Modification to:
Part 70 permit No.: T089-7323-00239

Dear Ms. McCracken:

Shell Oil Products US, East Chicago Terminal was issued Part 70 operating permit T089-7323-00239 on March 4, 1998 for a Bulk Petroleum Storage and Terminal. A letter requesting changes to this permit was received on July 26, 2002. Pursuant to the provisions of 326 IAC 2-7-12 a significant permit modification to this permit is hereby approved as described in the attached Technical Support Document.

The modification consists of the addition of two (2) internal floating roof gasoline storage tanks (D-2 and D-3) to the existing Section D.2 of your Part 70 permit. There has been no change to any of the language in that section of the permit other than to add the tanks to the facility description box. The tanks will be subject to the existing standards, limitations, and conditions therein.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this modification and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter call (219) 853-6306 and ask for Ronald Holder.

Sincerely,

Ronald L. Novak, Director
Hammond Department of Environmental Management
Air Pollution Control Division

Attachments

RH

cc: IDEM-OAQ – Permits Administration – Mindy Hahn

PART 70 OPERATING PERMIT

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT OFFICE OF AIR MANAGEMENT

and

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AIR POLLUTION CONTROL DIVISION

Shell Oil Products US, East Chicago Terminal
2400 Michigan Street
Hammond, Indiana 46320

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T089-7323-00239	
Original Issued by: Felicia R. George, Assistant Commissioner Office of Air Management	Issuance Date: March 4, 1998

First Administrative Amendment: 089-10084-00239, issued on October 20, 1998
Second Administrative Amendment: 089-10943-00239, issued on June 4, 1999
Third Administrative Amendment: 089-11274-00239, issued on August 27, 1999
First Minor Source Modification: 089-15946-00239, issued on October 1, 2002

First Significant Permit Modification: 089-16445-00239	Pages Affected: 1, 3, 6-10, and 35-37
Issued by: _____ Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: December 4, 2002

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and the Hammond Department of Environmental Management (HDEM), Air Pollution Control Division and presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary Petroleum Bulk Operations & Terminal.

Responsible Official: T. J. Rizzoli, Midwest Region Manager
Source Address: 2400 Michigan Street, Hammond, Indiana 46320
Mailing Address: 30 West Jefferson, Naperville, IL 60540
SIC Code: 5171 - Petroleum Bulk Stations & Terminals
County Location: Lake

County Status: Attainment/Unclassifiable for CO and NO_x,
Primary Nonattainment for TSP and SO₂,
Moderate Nonattainment for PM₁₀, and
Severe Nonattainment for VOC.

Source Status: Part 70 Permit Program
Major Source, under Emission Offset Rules
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

- (1) One (1) Tank Truck Loading Facility with four (4) loading racks in which ethanol and petroleum distillates are bottom-loaded into tank trucks. The lanes are not equipped with a vapor recovery unit (VRU) and can, therefore, only load ethanol and petroleum distillates with a Reid vapor pressure of 27.6 kilopascals (4 psia) or less. The maximum annual throughput of product for the Tank Truck Loading Facility is 528 million gallons/year.
- (2) Storage Tanks - Hammond Tank Farm
 - (a) Storage Vessel Tank No. D-1 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with vapor mounted double wiper seals. The maximum design capacity of the tank is 7,560,000 gallons.
 - (b) Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.
 - (c) Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.

Storage Tanks "North Field"

- (d) Storage Vessel Tank No. D-80 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- (e) Storage Vessel Tank No. D-83 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- (f) Storage Vessel Tank No. D-84 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.

(3) Storage Tanks - Hammond Tank Farm

- (a) Storage Vessel Tank No. D-55 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with a liquid mounted metallic shoe seal. The maximum design capacity of the tank is 840,000 gallons.
- (b) Storage Vessel Tank No. D-72 is used to store either Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof equipped with Vapor Mounted Double Wiper seals. The maximum design capacity of the tank is 3,360,000 gallons.
- (c) Storage Vessel Tank No. D-73 is used to store either Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof equipped with Vapor Mounted Double Wiper seals. The maximum design capacity of the tank is 3,360,000 gallons.

Storage Tanks "North Field"

- (d) Storage Vessel Tank No. D-08F is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Liquid Mounted Resilient Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (e) Storage Vessel Tank No. D-12S is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Liquid Mounted Resilient Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (f) Storage Vessel Tank No. D-85 is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.

- (g) Storage Vessel Tank No. D-50 is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (4) One (1) Water Treatment System, identified as 046, this system includes a Shallow Tray Low Profile Air Stripper and an Oil/Water Separator. Contaminated water consisting of either storm runoff from the truck loading rack area or fugitive groundwater is collected in the 20,000 gallon compartment of the collection tank. The water is then pumped to the oil/water separator where the water and "slop" are separated. The "slop" is sold and the water is pumped into the 5,000 gallon compartment from which it is pumped to the air stripper to remove volatiles prior to sending it to the sanitary district.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (1) Space heaters, process heaters, or boilers using the following fuels.
Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.
- (2) Applications of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.
- (3) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (4) Paved and unpaved roads and parking lots with public access.
- (5) Other activities or categories not previously identified:

Insignificant thresholds: Activities with emissions equal to or less than thresholds require listing only.

Lead (Pb) = 0.6 ton/year or 3.29 lbs/day
Sulfur Dioxide (SO₂) = 5 lbs/hour or 25 lbs/day
Nitrogen Oxides (NO_x) = 5 lbs/hour or 25 lbs/day
Volatile Organic Compounds (VOC) = 3 lbs/hour or 15 lbs/day
Carbon Monoxide (CO) = 25 lbs/day
Particulate Matter (PM) = 5 lbs/hour or 25 lbs/day

and

Activities or categories of activities with individual HAP emissions not previously identified.
Any unit emitting greater than 1 pound per day but less than 5 pounds per day or 1 ton per year of a single HAP,

and

Activities or categories of activities with a combination of HAP emissions not previously identified. Any unit emitting greater than 1 pound per day but less than 12.5 pounds per day or 2.5 ton per year of any combination of HAPs.

- (a) Storage Vessel Tank No. D-21 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (b) Storage Vessel Tank No. D-41 is used to store either Gasoline or Interfacial Mix with a true vapor pressure of 6.9 psia at 60°F. The tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 840,000 gallons.
- (c) Storage Vessel Tank No. D-51 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (d) Storage Vessel Tank No. D-52 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (e) Storage Vessel Tank No. D-57 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (f) Storage Vessel Tank No. D-74 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (g) Storage Vessel Tank No. D-75 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (h) Storage Vessel Tank No. D-89 is used to store gasoline, ethanol, or petroleum distillates with a true vapor pressure of 6.9 psia at 60°F or less. The tank has an internal floating roof equipped with a mechanical liquid mounted primary seal. The maximum design capacity of the tank is 840,000 gallons.
- (i) Storage Vessel Tank No. D-08B is used to store only Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,360,000 gallons.
- (j) Storage Vessel Tank No. D-91 is used to store either Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 210,000 gallons.
- (k) Storage Vessel Tank No. D-92 is used to store either Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 210,000 gallons.

- (l) Storage Vessel Tank No. D-08G is used to store Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,120,600 gallons.

Storage Tanks "North Field"

- (m) Storage Vessel Tank No. D-13S is used to store Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,141,600 gallons.

- (n) Fugitive emissions from equipment component leaks for equipment containing gasoline.

HAPs emitted from these units may include the following: 2,2,4-Trimethylpentane, 1,3-Butadiene, Benzene, Biphenyl, Cresols, Cumene, Ethylbenzene, Hexane, Methyl t-butyl ether, Naphthalene, Phenol, Styrene, Toluene, and Xylene.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because it is a major source, as defined in 326 IAC 2-7-1(22).

A.5 Prior Permit Conditions Superseded [326 IAC 2]

The terms and conditions of this permit incorporate all the current applicable requirements for all emission units located at this source, and supersede all terms and conditions in all registrations and permits, including construction permits, issued prior to the date of issuance of this permit. All terms and conditions in such registrations and permits are no longer in effect.

SECTION B

GENERAL CONDITIONS

B.1 Permit No Defense [326 IAC 2-1-10] [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-1-3.2 or 326 IAC 2-7-15.

B.2 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3.

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and HDEM.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- (c) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by HDEM.

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

- (b) The Permittee shall furnish to IDEM-OAM and HDEM within a reasonable time, any information that IDEM-OAM and HDEM may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (c) Upon request, the Permittee shall also furnish to IDEM-OAM and HDEM copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records to IDEM-OAM and HDEM along with a claim of confidentiality under 326 IAC 17. If requested by IDEM-OAM, or the U.S. EPA, the Permittee shall furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or for
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)]

- (a) Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this permit, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined in 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM or HDEM on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
- (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3); and
 - (5) Such other facts, as specified in Sections D of this permit, as IDEM-OAM and HDEM may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)] [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission units and associated emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that lack of proper maintenance does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM-OAM and HDEM within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

(IDEM)

Telephone Number: 1-800-451-6027 (ask for Office of Air Management, Compliance Section) or

Telephone Number: 317-233-5674 (ask for Compliance Section)

Facsimile Number: 317-233-5967

(HDEM)

Telephone Number: 219-853-6306
Facsimile Number: 219-853-6343

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and to:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM-OAM and HDEM may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(9) be revised in response to an emergency.
- (f) Failure to notify IDEM-OAM and HDEM by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:

- (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
- (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided either of the following:
 - (1) The applicable requirements are included and specifically identified in this permit;
 - (2) IDEM-OAM and HDEM in acting on the Part 70 permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 permit includes the determination or a concise summary thereof.
- (b) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement, IDEM-OAM and HDEM shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit shield shall continue in effect so long as the Permittee is in compliance with the compliance order.
- (d) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.

- (e) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (f) This permit shield is not applicable to modifications eligible for group processing until after IDEM-OAM and HDEM have issued the modifications. [326 IAC 2-7-12(c)(7)]
- (g) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM-OAM and HDEM have issued the modification. [326 IAC 2-7-12(b)(8)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent.
- (c) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM-OAM and HDEM determines any of the following:

- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM-OAM and HDEM to reopen and revise this permit shall follow the same procedures that apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM-OAM and HDEM at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM-OAM and HDEM may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM-OAM and HDEM and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and to:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

- (1) A timely renewal application is one that is:
 - (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
 - (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due. [326 IAC 2-5-3]

- (2) If IDEM-OAM and HDEM upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.
- (c) **Right to Operate After Application for Renewal** [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM-OAM and HDEM takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM-OAM and HDEM any additional information identified as being needed to process the application.
- (d) **United States Environmental Protection Agency Authority** [326 IAC 2-7-8(e)]
If IDEM-OAM and HDEM fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Administrative Permit Amendment [326 IAC 2-7-11]

- (a) An administrative permit amendment is a Part 70 permit revision that makes changes of the type specified under 326 IAC 2-7-11(a).
- (b) An administrative permit amendment may be made by IDEM-OAM and HDEM consistent with the procedures specified under 326 IAC 2-7-11(c).
- (c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Minor Permit Modification [326 IAC 2-7-12]

- (a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-7-11.
- (b) Minor modification to this permit shall follow the procedures specified under 326 IAC 2-7-12(b), except as provided by 326 IAC 2-7-12(c).
- (c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-7-12(b) and shall include the information required in 326 IAC 2-7-12(b)(3)(A) through (E).
- (d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application provided that the change has received any approval required by 326 IAC 2-1. After the Permittee makes the change allowed under minor permit modification procedures, and until IDEM-OAM and HDEM takes any of the actions specified in 326 IAC 2-7-12(b)(6)(A) through (C), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-7-12(b)(7)]

B.21 Significant Permit Modification [326 IAC 2-7-12(d)]

- (a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.
- (b) Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.
- (c) Nothing in 326 IAC 2-7-12(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-7 that would render existing permit compliance terms and conditions irrelevant.
- (d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-7, including those for application, public participation, review by affected states, review by the U.S. EPA, and availability of the permit shield, as they apply to permit issuance and renewal.

B.22 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.23 Changes Under Section 502(b)(10) of the Clean Air Act [326 IAC 2-7-20(b)]

The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:

- (a) For each such change, the required written notification shall include a brief description of the change within the source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.
- (b) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).

B.24 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
 - (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-1 has been obtained;

- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);

- (4) The Permittee notifies the:

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

and

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM-OAM and HDEM in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(33).

- (c) Emission Trades [326 IAC 2-7-20(c)]

The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM-OAM or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.25 Construction Permit Requirement [326 IAC 2]

Except as allowed by Indiana P.L. 130-1996 Section 12, as amended by P.L. 244-1997, modification, construction, or reconstruction shall be approved as required by and in accordance with 326 IAC 2.

B.26 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of IDEM identification cards, credentials, and other documents as may be required by law, the Permittee shall allow IDEM-OAM, HDEM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]

B.27 Transfer of Ownership or Operation [326 IAC 2-1-6] [326 IAC 2-7-11]

Pursuant to 326 IAC 2-1-6 and 326 IAC 2-7-11:

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM-OAM, Permits Branch and HDEM within thirty (30) days of the change. Notification shall include a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the Permittee and the new owner.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an administrative amendment pursuant to 326 IAC 2-7-11.

- (c) IDEM-OAM and HDEM shall reserve the right to issue a new permit.

B.28 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM-OAM and HDEM, within thirty (30) calendar days of receipt of a billing, or in a time period consistent with the fee schedule established in 326 IAC 2-7-19.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) If the Permittee does not receive a bill from IDEM-OAM, thirty (30) calendar days before the due date, the Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

C.1 Major Source

Pursuant to 326 IAC 2-3 Emission Offset, this source is a major source.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:

- (a) Visible emissions shall not exceed an average of twenty percent (20%) opacity in twenty-four (24) consecutive readings, as determined in 326 IAC 5-1-4.
- (b) Visible emissions shall not exceed sixty percent (60%) opacity for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.

C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-1-11.1]

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten percent (10%). Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

C.6 Operation of Equipment [326 IAC 2-7-6(6)]

All air pollution control equipment listed in this permit shall be operated at all times that the emission unit(s) vented to the control equipment is (are) in operation, as described in Section D of this permit.

C.7 Asbestos Abatement Projects - Accreditation [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

Prior to the commencement of any demolition or renovation activities, the Permittee shall use an Indiana accredited asbestos inspector to inspect thoroughly the affected facility or part of the facility where the demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II nonfriable asbestos containing material. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.8 Performance Testing [326 IAC 3-2.1]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing methods approved by IDEM-OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

no later than thirty-five (35) days before the intended test date.

- (b) All test reports must be received by IDEM-OAM and HDEM within forty-five (45) days after the completion of the testing. An extension may be granted by the Commissioner, if the source submits to IDEM-OAM and HDEM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.9 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Will continue to comply with such requirements that become effective during the term of this permit; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and
- (c) Has certified that all facilities at this source are in compliance with all applicable requirements.

C.10 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

in writing, no more than ninety (90) days (this time frame is determined on a case by case basis) after receipt of this permit, with full justification of the reasons for the inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.11 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.12 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) asbestos removal or demolition start date;
 - (B) removal or demolition contractor; or
 - (3) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management

Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and the

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are mandatory for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.13 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee prepared and submitted written emergency reduction plans (ERPs) consistent with safe operating procedures on January 18, 1991.
- (b) If the ERP is disapproved by IDEM-OAM and HDEM, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP. If after this time, the Permittee does not submit an approvable ERP then IDEM-OAM and HDEM shall supply such a plan.
- (c) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (d) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (e) Upon direct notification by IDEM-OAM and HDEM that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.14 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present in more than the threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
 - (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM-OAM and HDEM that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM-OAM and HDEM that the Risk Management Plan is being properly implemented.

C.15 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5(3)]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
 - (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM-OAM and HDEM upon request and shall be subject to review and approval by IDEM-OAM and HDEM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.

- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.16 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM-OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM-OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM-OAM within thirty (30) days of receipt of the notice of deficiency. IDEM-OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM-OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM-OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.17 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit a certified, annual emission statement that must be received by April 15th of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.

- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.

C.18 Monitoring Data Availability

- (a) With the exception of performance tests conducted in accordance with Section C - Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM and HDEM may excuse such failure provided that adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.19 General Record Keeping Requirements [326 IAC 2-7-5(3)(B)]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and made available within one (1) hour

upon verbal request of IDEM-OAM and HDEM for a minimum of three (3) years. They may be stored elsewhere for the remaining two (2) years providing they are made available within thirty (30) days after written request.

- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that improper maintenance did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C – Compliance Monitoring Plan - Failure to Take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.20 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the requirements stated in this permit the source shall submit a Quarterly Compliance Report. Any deviation from the requirements and the date(s) of each deviation must be reported.
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and the

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue - Room 304
Hammond, Indiana 46320

- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM-OAM and HDEM on or before the date it is due.
- (d) Unless otherwise specified in this permit, any **(quarterly or semi-annual)** report shall be submitted within thirty (30) days of the end of the reporting period.
- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.21 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1

FACILITY OPERATION CONDITIONS

- (1) One (1) Tank Truck Loading Facility with four (4) loading racks in which ethanol and petroleum distillates are bottom-loaded into tank trucks. The lanes are not equipped with a vapor recovery unit (VRU) and can, therefore, only load ethanol and petroleum distillates with a Reid vapor pressure of 27.6 kilopascals (4 psia) or less. The maximum annual throughput of product for the Tank Truck Loading Facility is 528 million gallons/year.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 Volatile Organic Compounds (VOC)

Pursuant to 326 IAC 12, 40 CFR 60, Subpart XX, Standards of Performance for Bulk Gasoline Terminals and 326 IAC 8-4-4, Equilon shall not load gasoline or any petroleum distillate with a Reid vapor pressure of 27.6 kilopascals (4 psia) or greater without a vapor collection system designed to collect the total organic compounds vapors displaced from tank trucks during product loading.

D.1.2 Hazardous Air Pollutants (HAPs)

Pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), the HAPs emissions from the Tank Truck Loading Facility shall be limited to 0.132 lbs/hr; 0.577 TPY.

Compliance Determination Requirements

D.1.3 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, if testing is required, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing. This does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.4 There are no compliance monitoring requirements for this facility.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.5 Record Keeping Requirements (Product Loaded)

Records of the types and amounts of volatile petroleum liquid loaded on a daily basis and the maximum true vapor pressure of the liquid as loaded shall be maintained for a minimum of 2 years and made available upon request by IDEM-OAM or HDEM.

D.1.6 Reporting Requirements

There are no reporting requirements for this facility.

SECTION D.2

FACILITY OPERATION CONDITIONS

(2) Storage Tank Nos. D-1, D-2, D-3, D-80, D-83, and D-84 with the following specifications:

Storage Tanks - Hammond Tank Farm

- (a) Storage Vessel Tank No. D-1 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with vapor mounted double wiper seals. The maximum design capacity of the tank is 7,560,000 gallons.
- (b) Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.
- (c) Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.

Storage Tanks- "North Field"

- (d) Storage Vessel Tank No. D-80 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- (e) Storage Vessel Tank No. D-83 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- (f) Storage Vessel Tank No. D-84 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Volatile Organic Compounds (VOC)

This internal floating roof storage vessel shall comply with the standards outlined in 326 IAC 12, 40 CFR 60.112b(a)(1) and 326 IAC 8-4-3(b).

D.2.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.2.3 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

D.2.4 Monitoring - Testing and Procedures Equipment (Visual Inspection, Repair, and Notification)

- (a) The internal floating roof storage vessel shall comply with the following testing and procedures requirements (visual inspections, repairs, notifications) of 326 IAC 12, 40 CFR 60.113b.
- (b) Pursuant to 326 IAC 12, 40 CFR 60.113b, a visual inspection should be made of the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the vessel with VOL. For storage vessels equipped with a liquid-mounted or mechanical shoe primary seal, visual inspections should be performed annually. For vessels equipped with both primary and secondary seals, a visual inspection should be performed at least every five (5) years.
- (c) Pursuant to 326 IAC 12, 40 CFR 60.115b(a)(3), if during the required annual visual inspection, the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. Records of such incidents shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:
 - 1) The vessel by identification number
 - 2) The nature of the defects
 - 3) The date the vessel was emptied or the nature of and date the repair was made.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.5 There are no compliance monitoring requirements for this facility.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.6 Record Keeping and Reporting Requirements (Tank Inspections)

- (a) The internal floating roof storage vessel shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 12, 40 CFR 60.115b(a)(2).
- (b) Pursuant to 326 IAC 12, 40 CFR 60.115b(a)(2), a record of each inspection performed shall be maintained and shall identify the following:
 - 1) The vessel inspected by identification number.
 - 2) The date the vessel was inspected.
 - 3) The observed condition of each component of the control equipment, including the following: seals, internal floating roof, and fittings.

D.2.7 Record Keeping and Reporting Requirements (Product Storage)

- (a) The internal floating roof storage vessel shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 12, 40 CFR 60.116b(c), Subpart Kb and 326 IAC 8-4-3(d).
- (b) Pursuant to 326 IAC 12, 40 CFR 60.116b(c), Subpart Kb and 326 IAC 8-4-3(d), records of the petroleum liquid stored, the period of storage and the maximum true vapor pressure of that liquid as stored during the respective storage period shall be maintained for a minimum period of two (2) years and made available upon request by IDEM-OAM or HDEM.

D.2.8 Reporting Requirements

A report of any defects (the internal floating roof not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric) discovered shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the vessel identification number, the nature of the defects, and the date the vessel was emptied or the nature of and date the repair was made.

SECTION D.3

FACILITY OPERATION CONDITIONS

(3) Storage Tank Nos. D-55, D-72, D-73, D-08F, D-12S, D-85, and D-50 with the following specifications:

Storage Tanks - Hammond Tank Farm

- (a) Storage Vessel Tank No. D-55 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with a liquid mounted metallic shoe seal. The maximum design capacity of the tank is 840,000 gallons.
- (b) Storage Vessel Tank No. D-72 is used to store either Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof equipped with Vapor Mounted Double Wiper seals. The maximum design capacity of the tank is 3,360,000 gallons.
- (c) Storage Vessel Tank No. D-73 is used to store either Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof equipped with Vapor Mounted Double Wiper seals. The maximum design capacity of the tank is 3,360,000 gallons.

Storage Tanks "North Field"

- (d) Storage Vessel Tank No. D-08F is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Liquid Mounted Resilient Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (e) Storage Vessel Tank No. D-12S is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Liquid Mounted Resilient Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (f) Storage Vessel Tank No. D-85 is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.
- (g) Storage Vessel Tank No. D-50 is used to store either Unleaded Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 3,360,000 gallons.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Volatile Organic Compounds (VOC)

These internal floating roof storage vessels shall comply with the standards outlined in 326 IAC 8-4-3(b) and 326 IAC 8-9-4(c).

D.3.2 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan of this permit, is required for this facility and any control device.

Compliance Determination Requirements

D.3.3 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

D.3.4 Monitoring - Testing and Procedures Equipment (Visual Inspection, Repair, and Notification)

- (a) The internal floating roof storage vessels shall comply with the following testing and procedures requirements (visual inspections, repairs, notifications) of 326 8-9-5(b).
- (b) Pursuant to 326 IAC 8-9-5(b) a visual inspection should be made of the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with VOL. For storage vessels equipped with a liquid-mounted or mechanical shoe primary seal, visual inspections should be performed annually. For vessels equipped with both primary and secondary seals a visual inspection should be performed at least every five (5) years.
- (c) Pursuant to 326 IAC 8-9-5(b)(2) and 326 IAC 8-9-6(c)(2), if during the required annual visual inspection, the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. Records of such incidents shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:
 - 1) The vessel by identification number
 - 2) The nature of the defects
 - 3) The date the vessel was emptied or the nature of and date the repair was made.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.3.5 There are no compliance monitoring requirements for these facilities.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.3.6 Record Keeping and Reporting Requirements (Vessel Records)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-9-6(b) and 326 IAC 8-9-6(j).
- (b) Pursuant to 326 IAC 8-9-6(b), the owner or operator of each vessel shall maintain a record and submit to the department a report containing the following information for each vessel:
 - 1) The vessel identification number.
 - 2) The vessel dimensions.
 - 3) The vessel capacity.

- 4) A description of the emission control equipment shall be maintained for the life of the vessel.
- (c) Pursuant to 326 IAC 8-9-6(j), the owner or operator of each vessel storing a waste mixture of indeterminate or variable composition shall be subject to the following requirements:
 - 1) Prior to the initial filling of the vessel, the highest maximum true vapor pressure for the range anticipated liquid compositions to be stored will be determined using the methods described within the rule.
 - 2) For vessels in which the vapor pressure of the anticipated liquid composition is above the cutoff for monitoring but below the cutoff for controls as defined in section 4(a) of this rule, tests are required as outlined in the rule.

D.3.7 Record Keeping and Reporting Requirements (Tank Inspections)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-9-6(c).
- (b) Pursuant to 326 IAC 8-9-6(c), a record of each inspection performed shall be maintained and shall identify the following:
 - 1) The vessel inspected by identification number.
 - 2) The date the vessel was inspected.
 - 3) The observed condition of each component of the control equipment, including the following: seals, internal floating roof, and fittings.

D.3.8 Record Keeping and Reporting Requirements (Product Storage)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-4-3(d).
- (b) Pursuant to 326 IAC 8-4-3(d), records of the petroleum liquid stored and the maximum true vapor pressure of that liquid stored during the respective storage period shall be maintained for a minimum period of two (2) years and made available upon request by IDEM-OAM or HDEM.

D.3.9 Reporting Requirements

A report of any defects (the internal floating roof not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric) discovered shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the vessel identification number, the nature of the defects, and the date the vessel was emptied or the nature of and date the repair was made.

SECTION D.4

FACILITY OPERATION CONDITIONS

- (4) One (1) Water Treatment System, identified as 046, this system includes a Shallow Tray Low Profile Air Stripper and an Oil/Water Separator. Contaminated water consisting of either storm runoff from the truck loading rack area or fugitive groundwater is collected in the 20,000 gallon compartment of the collection tank. The water is then pumped to the oil/water separator where the water and "slop" are separated. The "slop" is sold and the water is pumped into the 5,000 gallon compartment from which it is pumped to the air stripper to remove volatiles prior to sending it to the sanitary district.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.4.1 Volatile Organic Compounds (VOC)

Pursuant to Construction Permit No. 369 and Operation Permit No. 00722, the total VOC emissions from the Shallow Tray Low Profile Air Stripper shall be limited to 2.469 lbs/hr and 10.814 TPY.

Compliance Determination Requirements

D.4.2 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.4.3 Monitoring

At a minimum, the influent to and the effluent from the Shallow Tray Low Profile Air Stripper shall be sampled for total VOC and BETX (Benzene, Ethylbenzene, Toluene, and Xylene) once per calendar quarter.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.4.4 Record Keeping and Reporting Requirements

- (a) Volume (in gallons) of contaminated water processed through the Shallow Tray Low Profile Air Stripper per day.
- (b) Operating hours of the Shallow Tray Low Profile Air Stripper per day.

D.4.5 Reporting Requirements

A quarterly summary of the information to document compliance with Conditions D.4.4 and D.4.5 shall be submitted to the address(es) listed in Section C - General Reporting Requirements of this permit within thirty (30) days after the end of the quarter being reported.

SECTION D.5 FACILITY OPERATION CONDITIONS -- INSIGNIFICANT ACTIVITIES

(5) Storage Tank Nos. D-41, D-89, D-91, and D-92 with the following specifications:

- (a) Storage Vessel Tank No. D-41 is used to store either Gasoline or Interfacial Mix with a true vapor pressure of 6.9 psia at 60°F. The tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 840,000 gallons.
- (b) Storage Vessel Tank No. D-89 is used to store gasoline, ethanol, or petroleum distillates with a true vapor pressure of 6.9 psia at 60°F or less. The tank has an internal floating roof equipped with a mechanical liquid mounted primary seal. The maximum design capacity of the tank is 840,000 gallons.
- (c) Storage Vessel Tank No. D-91 is used to store either Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 210,000 gallons.
- (d) Storage Vessel Tank No. D-92 is used to store either Gasoline or Distillates with a true vapor pressure of 6.9 psia at 60°F. This tank has an internal floating roof equipped with a Vapor Mounted Primary seal only. The maximum design capacity of the tank is 210,000 gallons.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.5.1 Volatile Organic Compounds (VOC)

These internal floating roof storage vessels shall comply with the standards outlined in 326 IAC 8-4-3(b) and 326 IAC 8-9-4(c).

Compliance Determination Requirements

D.5.2 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

D.5.3 Monitoring - Testing and Procedures Equipment (Visual Inspection, Repair, and Notification)

- (a) The internal floating roof storage vessels shall comply with the following testing and procedures requirements (visual inspections, repairs, notifications) of 326 8-9-5(b).
- (b) Pursuant to 326 IAC 8-9-5(b) a visual inspection should be made of the internal floating roof, the primary seal, and the secondary seal, if one is in service, prior to filling the vessel with VOL. For storage vessels equipped with a liquid-mounted or mechanical shoe primary seal, visual inspections should be performed annually. For vessels equipped with both primary and secondary seals a visual inspection should be performed at least every five (5) years.
- (c) Pursuant to 326 IAC 8-9-5(b)(2) and 326 IAC 8-9-6(c)(2) if during the required annual visual inspection, the internal floating roof is not resting on the surface of the VOL, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the owner or operator shall repair the items or empty and remove the vessel from service within forty-five (45) days. Records of such incidents shall be maintained and a report shall be furnished to the department within thirty (30) days of the inspection. The report shall identify the following:

- 1) The vessel by identification number
- 2) The nature of the defects
- 3) The date the vessel was emptied or the nature of and date the repair was made.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.5.4 There are no compliance monitoring requirements for these facilities.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.5.5 Record Keeping and Reporting Requirements (Vessel Records)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-9-6(b) and 326 IAC 8-9-6(j).
- (b) Pursuant to 326 IAC 8-9-6(b), the owner or operator of each vessel shall maintain a record and submit to the department a report containing the following information for each vessel:
 - 1) The vessel identification number.
 - 2) The vessel dimensions.
 - 3) The vessel capacity.
 - 4) A description of the emission control equipment shall be maintained for the life of the vessel.
- (c) Pursuant to 326 IAC 8-9-6(j), the owner or operator of each vessel storing a waste mixture of indeterminate or variable composition shall comply with the following requirements:
 - 1) Prior to the initial filling of the vessel, the highest maximum true vapor pressure for the range anticipated liquid compositions to be stored will be determined using the methods described within the rule.
 - 2) For vessels in which the vapor pressure of the anticipated liquid composition is above the cutoff for monitoring but below the cutoff for controls as defined in section 4(a) of this rule, tests are required as outlined in the rule.

D.5.6 Record Keeping and Reporting Requirements (Tank Inspections)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-9-6(c).
- (b) Pursuant to 326 IAC 8-9-6(c), a record of each inspection performed shall be maintained and shall identify the following:
 - 1) The vessel inspected by identification number.
 - 2) The date the vessel was inspected.

- 3) The observed condition of each component of the control equipment, including the following: seals, internal floating roof, and fittings.

D.5.7 Record Keeping and Reporting Requirements (Product Storage)

- (a) The internal floating roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-4-3(d).
- (b) Pursuant to 326 IAC 8-4-3(d), records of the petroleum liquid stored and the maximum true vapor pressure of that liquid stored during the respective storage period shall be maintained for a minimum period of two (2) years and made available upon request by IDEM-OAM or HDEM.

SECTION D.6 FACILITY OPERATION CONDITIONS -- INSIGNIFICANT ACTIVITIES

(6) Storage Tank Nos. D-21, D-51, D-52, D-57, D-74, D-75, D-08B, D-08G, and D-13S with the following specifications:

- (a) Storage Vessel Tank No. D-21 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (b) Storage Vessel Tank No. D-51 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (c) Storage Vessel Tank No. D-52 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (d) Storage Vessel Tank No. D-57 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (e) Storage Vessel Tank No. D-74 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (f) Storage Vessel Tank No. D-75 is used to store only Distillates with a true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 840,000 gallons.
- (g) Storage Vessel Tank No. D-08B is used to store only Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,360,000 gallons.
- (h) Storage Vessel Tank No. D-08G is used to store Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,120,600 gallons.

Storage Tanks "North Field"

- (i) Storage Vessel Tank No. D-13S is used to store Distillates with a maximum true vapor pressure of 0.0085 psia at 60°F. This tank has a fixed cone roof and a maximum design capacity of 3,141,600 gallons.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- D.6.1 Prior to any change in the operation, the change must be approved by the Hammond Department of Environmental Management (HDEM) and the Indiana Department of Environmental Management (IDEM).

Compliance Determination Requirements

- D.6.2 Testing Requirements [326 IAC 2-7-6(1)]

Testing of this facility is not specifically required by this permit. However, this does not preclude testing requirements on this facility under 326 IAC 2-7-5 and 326 IAC 2-7-6.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.6.3 There are no compliance monitoring requirements for these facilities.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.6.4 Record Keeping and Reporting Requirements (Vessel Records)

- (a) The fixed cone roof storage vessels shall comply with the following record keeping and reporting requirements as outlined in 326 IAC 8-9-6(b).
- (b) Pursuant to 326 IAC 8-9-6(b), records of each vessel including the vessel identification number, dimensions, capacity, and a description of the emission control equipment shall be maintained for the life of the vessel.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
-AIR POLLUTION CONTROL DIVISION-**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Equilon Enterprises LLC
Source Address: 2400 Michigan Street, Hammond, Indiana 46320
Mailing Address: P.O. Box 290, Argo, Illinois 60501
Part 70 Permit No.: T089-7323-00239

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- ☐ Annual Compliance Certification Letter
- ☐ Emergency/Deviation Occurrence Reporting Form
- ☐ Test Result (specify)
- ☐ Report (specify)
- ☐ Notification (specify)
- ☐ Other (specify)

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

Phone:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

and

**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
-AIR POLLUTION CONTROL DIVISION-
5925 Calumet Avenue
Hammond, Indiana 46320
Phone: 219-853-6306
FAX: 219-853-6343**

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Equilon Enterprises LLC
Source Address: 2400 Michigan Street, Hammond, Indiana 46320
Mailing Address: P.O. Box 290, Argo, Illinois 60501
Part 70 Permit No.: T089-7323-00239

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No. 2	
<input type="checkbox"/> 1.	This is an emergency as defined in 326 IAC 2-7-1(12) <ul style="list-style-type: none">• The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section and 219-853-6306 for HDEM); and• The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967 (IDEM) and 219-853-6343 (HDEM)), and follow the other requirements of 326 IAC 2-7-16
<input type="checkbox"/> 2.	This is a deviation, reportable per 326 IAC 2-7-5(3)(c) <ul style="list-style-type: none">• The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

<p>Facility/Equipment/Operation:</p> <p>Control Equipment:</p> <p>Permit Condition or Operation Limitation in Permit:</p> <p>Description of the Emergency/Deviation:</p> <p>Describe the cause of the Emergency/Deviation:</p>
<p>Date/Time Emergency/Deviation started:</p> <p>Date/Time Emergency/Deviation was corrected:</p>
<p>Was the facility being properly operated at the time of the emergency/deviation? Y N</p> <p>Describe:</p>
<p>Type of Pollutants Emitted: TSP, PM-10, SO₂, VOC, NO_x, CO, Pb, other:</p> <p>Estimated amount of pollutant(s) emitted during emergency/deviation:</p> <p>Describe the steps taken to mitigate the problem:</p> <p>Describe the corrective actions/response steps taken:</p> <p>Describe the measures taken to minimize emissions:</p> <p>If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:</p>

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**
and
**HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
-AIR POLLUTION CONTROL DIVISION-**

Part 70 Quarterly Report*

Source Name: Equilon Enterprises LLC
Source Address: 2400 Michigan Street, Hammond, Indiana 46320
Mailing Address: P.O. Box 290, Argo, Illinois 60501
Part 70 Permit No.: T089-7323-00239
Facility: Shallow Tray Low Profile Air Stripper
Parameter: Total VOC and BTEX emissions
Limit: Total VOC emissions limited to 2.469 lbs/hr and 10.814 TPY.

Quarter: _____ Year: _____

EFFLUENT	TIME ON/TIME OFF	VOLUME PROCESSED	ID # OF INFFLUENT	ID # OF
DATE	(Hours)	(Gallons)	SAMPLE	SAMPLE

*Attach lab reports with Part 70 Quarterly Report.

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and
HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
-AIR POLLUTION CONTROL DIVISION-**

**PART 70 OPERATING PERMIT
QUARTERLY COMPLIANCE REPORT**

Source Name: Equilon Enterprises LLC
Source Address: 2400 Michigan Street, Hammond, Indiana 46320
Mailing Address: P.O. Box 290, Argo, Illinois 60501
Part 70 Permit No.: T089-7323-00239

Months: _____ to _____ Year: _____

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly. Any deviation from the requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify zero in the column marked "No Deviations".

LIST EACH COMPLIANCE REQUIREMENT EXISTING FOR THIS SOURCE:			
Requirement (eg. Permit Condition D.1.3)	Number of Deviations	Date of each Deviations	No Deviations

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

**Indiana Department of Environmental Management
Office of Air Quality**

and

**Hammond Department of Environmental Management
Air Pollution Control Division**

**Technical Support Document (TSD) for a Part 70
Minor Source Modification and Significant Permit Modification**

Source Background and Description

Source Name:	Shell Oil Products US, East Chicago Terminal formerly Equilon Enterprises, East Chicago Terminal
Source Location:	2400 Michigan Street, Hammond, IN 46320
County:	Lake
SIC Code:	5171 – Bulk Petroleum Storage and Terminal
Operation Permit No.:	T089-7323-00239
Operation Permit Issuance Date:	March 4, 1998
Minor Source Modification	089-15946-00239
Significant Permit Modification	089-16445-00239
Permit Reviewer:	Ronald Holder - HDEM

The Office of Air Quality (OAQ) has reviewed a minor source modification application from Shell Oil Products US, East Chicago Terminal, relating to the addition and operation of two (2) internal floating roof (IRF) gasoline storage tanks identified as D-2 and D-3.

History

On July 26, 2002, Shell Oil Products US, East Chicago Terminal, submitted an application to the OAQ requesting to add two (2) internal floating roof (IRF) gasoline storage tanks (D-2 and D-3) to their existing terminal in Hammond, Indiana. Equilon Enterprises LLC, East Chicago Terminal, now doing business as Shell Oil Products US, East Chicago Terminal, was issued a Part 70 permit (T089-7323-00239) on March 4, 1998.

Source Definition

Shell Oil Products US, formerly Equilon Enterprises, LLC, owns two (2) terminals in Hammond, Indiana. Separate Part 70 permits were issued to these sources (1998) prior to being purchased by Equilon Enterprises. The “East Chicago Terminal” (T089-7323-00239) is located at 2400 Michigan Street. The “Hammond Terminal” (T089-7291-00209) is located at 1020 141st Street.

The two (2) terminals have the same SIC codes and are owned by one (1) company; however, they are **not** located on contiguous properties. They are greater than five (5) miles apart and are not support facilities. Each terminal has its own primary economic activity and operates as a separate facility. Therefore, they are considered two (2) separate and distinct Part 70 sources. This modification is being made to the “East Chicago Terminal”.

Equilon Enterprises, LLC submitted the name changes to “Shell Oil Products US, East Chicago Terminal” and “Shell Oil Products US, Hammond Terminal” to this Department in May of 2002.

Existing Approvals

The source was issued a Part 70 Operating Permit (T089-7323-00239) on March 4, 1998. The source has since received the following:

- (a) First Administrative Amendment (089-10084-00239), issued on October 20, 1998;
- (b) Second Administrative Amendment (089-10943-00239), issued on June 4, 1999; and
- (c) Third Administrative Amendment (089-11274-00239), issued on August 27, 1999.

Enforcement Issue

There are no enforcement actions pending.

Stack (Tank) Summary (Two (2) identical tanks)

Stack (Tank) ID	Operation	Tank Height (feet)	Tank Diameter (feet)	Internal Float Roofs with	Capacity (gallons)
				Mechanical Shoe	
D-2	Gasoline storage	50'	160'	Seals & Rim	7,560,000
D-3	Gasoline storage	50'	160'	Mounted	7,560,000
				Secondary Seals	

Recommendation

The staff recommends to the Commissioner that a Minor Source Modification and Significant Permit Modification be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on July 26, 2002. Additional information was received on August 8, 2002.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (two (2) pages). These calculations confirm the accuracy of the calculations submitted by the applicant.

Potential To Emit of Modification

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA."

This table reflects the PTE before controls. Control equipment is not considered federally enforceable until it has been required in a federally enforceable permit.

Potential To Emit of Two (2) Gasoline Storage Tanks D-2 and D-3

Pollutant	Potential To Emit (tons/year)
PM	0
PM-10	0
SO ₂	0
VOC	8.95
CO	0
NO _x	0

HAP's	Potential To Emit (tons/year)
2,2,4-Trimethylpentane	0.054
Benzene	0.026
Ethylbenzene	0.002
n-Hexane	0.048
MTBE	0.138
Toluene	0.036
Xylene	0.016
Fugitives of above	0.033
TOTAL	0.353

Justification for Modification

The Part 70 Operating permit is being modified through a Part 70 Minor Source Modification and Significant Permit Modification. The minor source modification is being performed pursuant to 326 IAC 2-7-10.5(d)(6): a modification that is subject to a new source performance standard (NSPS) and that standard is the most stringent applicable requirement. The significant permit modification is being performed pursuant to 326 IAC 2-7-12(b)(1)(E): because it is considered to be a modification under some provision of Title I of the CAA. There are no additional requirements to what is already in the source's permit and no language changes are necessary.

County Attainment Status

This source is located in Lake County. 40 CFR 81.315 – (Indiana) – 7/1/99

Pollutant	Status
PM-10	moderate non-attainment
SO ₂	primary non-attainment
NO ₂	attainment/unclassifiable
Ozone	severe non-attainment
CO	attainment
Lead	attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC are considered when evaluating the rule applicability relating to the ozone standards. Lake County has been designated as severe non-attainment for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.
- (b) Lake County has been classified as non-attainment for particulates less than ten (10) microns in diameter (PM₁₀) and sulfur dioxide (SO₂). Therefore, these emissions were also reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

Source Status

Existing Source PSD or Emissions Offset Definition (emissions after controls, based upon 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/year)
PM	0
PM-10	0
SO ₂	0
VOC	Greater than 100
CO	0
NO _x	0
Single HAP	Less than 10
Combination of HAPs	Less than 25

- (a) This existing source is not a major stationary source (for the purposes of PSD) because even though it is one of the 28 listed source categories **(326 IAC 2-2-1(y)(1)(Z))**, no attainment regulated pollutant is emitted at a rate of 100 tons per year or more.
- (b) This existing source is a major stationary source (for the purposes of Emission Offset) because it has a potential to emit twenty-five (25) tons per year or more of volatile organic compounds (VOC) in a severe non-attainment ozone area **(326 IAC 2-3-1 (t)(2))**.
- (c) These emissions are based on the Title V permit application submitted by the source.

Potential to Emit of Modification After Issuance

The table below summarizes the potential to emit, reflecting all limits, of the significant emission units after controls. The control equipment is considered federally enforceable only after issuance of this Part 70 source modification.

Process/facility	Potential to Emit (tons/year)						
	PM	PM-10	SO ₂	VOC	CO	NO _x	HAP(Pb)
Volatile Organic Liquid							
Storage Tanks D-2 and D-3	0	0	0	8.95	0	0	0
PSD and Emission Offset Significant Levels	25	15	40	40 *25	100	40	0.6 (lead)

*326 IAC 2-3-1(s) definition major modification, increase that is not de minimis in severe ozone nonattainment area.

*326 IAC 2-3-1(l) definition de minimis, increase of VOC that does not exceed twenty-five (25) tons per year.

This modification to an existing major stationary source is not major because the emissions increase is “de minimis” for this severe ozone nonattainment area. Therefore, pursuant to 326 IAC 2-3, the Emission Offset requirements do not apply.

Federal Rule Applicability

NSPS

Volatile Organic Liquid Storage Vessels (Tanks D-2 and D-3) will be subject to the New Source Performance Standards (NSPS) in 326 IAC 12, (40 CFR 60.112b, Subpart (Kb).

- a) This rule requires that volatile organic liquid storage vessels with a capacity equal to or greater than 151 cubic meters (39,000 gallons) containing a VOL that, as stored,

has a maximum true vapor pressure equal to or greater than 5.2 kPa (0.75 psi) but less than 76.6 kPa (11 psi), shall be equipped with an internal floating roof with appropriate primary and/or secondary seals.

- b) Shell Oil Products US, East Chicago Terminal is adding tanks D-2 and D-3 to service gasoline and less volatile petroleum products. Each tank will have an internal floating roof with a mechanical shoe seal and rim-mounted secondary seal. They have acknowledged the requirements in their request for this modification.
- c) Tanks D-2 and D-3 will be added to the existing Section D.2 of the source's current Part 70 permit. That section contains the appropriate limitations, standards, conditions, and record keeping and reporting requirements for existing tanks. There is no need for additional language or changes to the existing language in the permit.

NESHAPS

There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs) (326 IAC 14 and 40 CFR Part 63) applicable to this proposed modification.

State Rule Applicability

326 IAC 2-6 (Emission Reporting)

Tanks D-2 and D-3 will be subject to 326 IAC 2-6 (Emission Reporting), because the source emits more than 10 tons/yr of VOC in Lake County. Pursuant to this rule, the owner/operator of this facility must annually submit an emission statement of the facility. The annual statement must be received by April 15 of each year and must contain the minimum requirements as specified in 326 IAC 2-6-4.

Shell Oil Products US, East Chicago Terminal, submits an annual emission statement that includes all volatile organic liquid storage tanks.

326 IAC 8-4-3 (Petroleum Liquid Storage Facilities)

Tanks D-2 and D-3 will be subject to the standards of 326 IAC 8-4-3(b) and the record keeping and reporting requirements of 326 IAC 8-4-3(d).

These standards and requirements are included in Section D.2 of the existing Part 70 permit and are the same as the New Source Performance Standards.

326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

326 IAC 8-9-2(8) exempts these stationary vessels from the standards and requirements in 326 IAC 8-9 because the vessels are subject to the provisions of 40 CFR 60, Subpart Kb, New Source Performance Standards for Volatile Organic Liquid Storage.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous

compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance determination requirements applicable to this modification are as follows:

Internal Floating Roof Tanks D-2 and D-3 shall comply with the visual inspection and repair requirements of 326 12, 40 CFR 60.113b and the record keeping and reporting requirements of 326 IAC 12, 40 CFR 60.115b. Shell Oil Products US shall also comply with the record keeping and reporting requirements of 326 IAC 12, 40 CFR 60.116b, and 326 IAC 8-4-3(d).

There are no compliance monitoring requirements for these tanks.

The existing Section D.2 in the current Part 70 permit contains all the standards, limitations, conditions, and record keeping and reporting requirements in these rules. There is no need for additional language or changes to the existing language in the existing D-Section.

**Minor Source Modification 089-15946-00239 and
Significant Permit Modification 089-16445-00239** Part 70 Permit pages affected 1, 3, 6-10, and 35-37.

The following changes were made to the Part 70 Permit T089-7323-00239. **Bold** indicates the items that were added and ~~strike-outs~~ indicate the items that were removed.

1. The cover page (page 1) was modified to add the issuance dates of the first minor source modification and first significant permit modification, and to show the affected pages.
2. On page 3 of 51, in the Table of Contents, Tanks D-2 and D-3 were added to Section D.2, Facility Operation Conditions, as follows:

D.2 FACILITY OPERATION CONDITIONS - Storage Tank Nos. D-1, **D-2, D-3**, D-80, D-83, and D-84
3. On page 6 of 51, in Section A, Source Summary, A.2, Emission Units and Pollution Control Equipment Summary, item (2), Storage Tank – Hammond Tank Farm; tanks D-2 and D-3 were added as follows:

(2) Storage Tanks - Hammond Tank Farm
 - (a) Storage Vessel Tank No. D-1 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with vapor mounted double wiper seals. The maximum design capacity of the tank is 7,560,000 gallons.
 - (b) **Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.**
 - (c) **Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.**
4. On pages 6 and 7 of 51, in Section A, Source Summary, A.2, Emission Units and Pollution Control Equipment Summary, item (2), Storage Tanks – “North Field”; tanks D-80, D-83, and D-84 were shifted forward from page 6 to page 7 and re-designated as follows because of the addition of D-2 and D-3:

Storage Tanks "North Field"

- ~~(b)~~ (d) Storage Vessel Tank No. D-80 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
 - ~~(c)~~ (e) Storage Vessel Tank No. D-83 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
 - ~~(d)~~ (f) Storage Vessel Tank No. D-84 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
5. On pages 7 through 10 of 51, the remainder of Section A, Source Summary, was unchanged but shifted forward because of the addition of D-2 and D-3.
6. On page 35 of 51, Section D.2, in the facility description box, tanks D-2 and D-3 were added and the remaining tanks were re-designated as follows:

(2) Storage Tank Nos. D-1, **D-2, D-3**, D-80, D-83, and D-84 with the following specifications:

Storage Tanks - Hammond Tank Farm

- (a) Storage Vessel Tank No. D-1 is used to store gasoline, ethanol, or petroleum distillates with a maximum true vapor pressure of 6.4 psia at 48°F or less. The tank has an internal floating roof equipped with vapor mounted double wiper seals. The maximum design capacity of the tank is 7,560,000 gallons.
- (b) **Storage Vessel Tank No. D-2 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.**
- (c) **Storage Vessel Tank No. D-3 is equipped to store gasoline, ethanol, or petroleum distillates. This tank has an internal floating roof with a mechanical shoe primary seal and a rim-mounted secondary seal. The maximum design capacity of the tank is 7,560,000 gallons.**

Storage Tanks– "North Field"

- ~~(b)~~ (d) Storage Vessel Tank No. D-80 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- ~~(c)~~ (e) Storage Vessel Tank No. D-83 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.
- ~~(d)~~ (f) Storage Vessel Tank No. D-84 is used to store Gasoline or Distillates with a maximum true vapor pressure of 6.4 psia at 48°F. This tank has an internal floating roof with a Vapor Mounted Primary seal and a Rim Mounted Secondary seal. The maximum design capacity of the tank is 3,108,000 gallons.

7. On pages 35 through 37 of 51, the remainder of Section D.2, Facility Operation Conditions, was unchanged but shifted forward because of the addition of tanks D-2 and D-3.

8. This modification will also incorporate the name change from Equilon Enterprises, LLC, East Chicago Terminal to Shell Oil Products US, East Chicago Terminal.
9. All other sections of the permit and their corresponding conditions shall remain unchanged and in effect.

Conclusion

The construction of this proposed modification (addition of Tanks D-2 and D-3) shall be subject to the conditions of the attached proposed Part 70 Minor Source Modification **089-15946-00239** and Significant Permit Modification **089-16445-00239**.

Hammond Department of Environmental Management
Emission Inventory System Update (EIS)
Storage of Organic Liquids ... AP-42 ... Section 7

Appendix A
calculations

Minor Source Modification 089-15946-00239

Significant Permit Modification 089-16445-00239

General Information:

Company Name Shell Oil Products US
Year of Data review
Plant ID # T089-7323-00239

Tank Information:

Tank ID # Internal Float Roof Tank
Tank Shell Diameter..... 160 feet
Tank Shell Height..... 50 feet
*Tank Shell Type (Welded or Riveted)..... Welded
*Tank Deck Type (Welded or Bolted)..... Welded
*Tank Rim Seal Type..... Mechanical Shoe with Rim Mounted Secondary
Tank Capacity (max liquid)..... 7,560,000 gallons

Product Information: **

Product Stored..... gasoline
Vapor Molecular Weight..... 63.15 lb/lb-mole
True Vapor Pressure @ 60° F..... 5.24 psia - @ 50° F
Average Organic Liquid Density..... 5.6 lb/gal
Annual Product Throughput..... 181,440,000 gallons/yr

*if this information changes, see calculations

if tank contains crude oil, see calculations

**This product information available in the AP-42, Section 7.

Lr =	Rim Seal Loss =	0.887	Tons/yr
Lwd =	Withdrawal Loss =	0.118	Tons/yr
Lf =	Deck Fitting Losses =	3.843	Tons/yr
Ld =	Deck Seam Loss =	0.000	Tons/yr

Lt = Lr + Lwd + Lf = Total Loss =	4.848	Tons/yr
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This is a verification of the calculations submitted by the source.

The source calculated emissions using EPA TANKS 4.09b program = 4.41 TPY

RH 080802

See AP-42, Section 7, for clarification of the following calculations:

* asterisked items change with rim seal information (see AP-42, Section 7)

Kr
VMP = 6.7
LMP = 3.0
VMP w/sec = 2.5
LMP w/sec = 1.6

MSwRMS and

Rim Seal Loss:

* Kr = seal factor (see Table 7.1-14) =	1.6 lb-mole/ft•yr
P* = vapor pres. function - Equation (3-3) =	0.109750 dimensionless
D = tank diameter =	160 feet
Mv = vapor molecular weight (Table 7.1-3)	63.15 lb/lb-mole
crude? Kc = product factor, Kc = 0.4 for crude oils,	1.0
Kc = 1 for all other organic liquids	

$$L_r = \text{Rim Seal Loss} = (K_r) * (P^*) * (D) * (M_v) * (K_c) = 1774.261 \text{ lb/yr}$$

Withdrawal Loss:

Q = annual throughput, (42 gal/bbl) =	4320000 bbl/yr
WL = ave. organic liquid density (Table 7.1-3) =	5.6 lb/gal
D = tank diameter =	160 feet
Nc = number of columns =	16
C = shell clingage factor, (see Table 7.1-10) =	0.0015 bbl/1000 sqft
C = 0.006 for crude oil	

Lwd =

$$\text{Withdrawal Loss} = (0.943 * Q * C * WL / D) (1 + N_c / D) = 235.260 \text{ lb/yr}$$

Deck Fitting Loss:

Ff = total deck fitting loss factor (Table 7.1-16) =	1109 lb-mole/yr
(go to cell G47)	
P*, Mv, and Kc as defined in above calculations	

$$L_f = \text{Deck Fitting Losses} = (F_f) * (P^*) * (M_v) * (K_c) = 7686.154 \text{ lb/yr}$$

Deck Seam Loss:

Kd = deck seam loss per unit seam length factor =	0.00 lb/mole/ft-yr
(0.0 for welded deck, 0.34 for bolted deck)	
Sd = deck seam length factor =	0.2 ft/sqft
D, P*, Mv, and Kc are as defined above	

Ld =

$$\text{Deck Seam Loss} = (K_d) * (S_d) * (D^2) * (P^*) * (M_v) * (K_c) = 0.000 \text{ lb/yr}$$

Tanks with welded decks do not have deck seam losses

The End

Summary of Internal Float Roof Tank Deck Fitting Loss Factors
for typical numbers based on tank diameter, see AP-42, Table 7.1-16
if tank-specific data is unavailable use Figures 7.1-24 and 25

Deck Fitting Type	Quantity	Factor	Total
Access Hatch:			
Bolted Cover, Gasketed.....	1	1.6	1.6
Unbolted Cover, Gasketed.....	0	11	0
Unbolted Cover, Ungasketed.....	0	25	0
Automatic Gauge Float Well:			
Bolted Cover, Gasketed.....	1	5.1	5.1
Unbolted Cover, Gasketed.....	0	15	0
Unbolted Cover, Ungasketed.....	0	28	0
Column Well:			
Builtup Column - Sliding cover, Gasketed.....	16	33	528
Builtup Column - Sliding Cover, Ungasketed.....	0	47	0
Pipe Column - Flexible Fabric Sleeve Seal.....	0	10	0
Pipe Column - Sliding Cover, Gasketed.....	0	19	0
Pipe Column - Sliding Cover, Ungasketed.....	0	32	0
Ladder Well:			
Sliding Cover, Gasketed.....	1	56	56
Sliding Cover, Ungasketed.....	0	76	0
Roof Leg or Hanger Well:			
Adjustable.....	64	7.9	505.6
Fixed.....	0	0	0
Sample Pipe or Well:			
Slotted Pipe - Sliding Cover, Gasketed.....	0	44	0
Slotted Pipe - Sliding Cover, Ungasketed.....	0	57	0
Sample Well - Slit Fabric Seal, (10% open area).....	1	12	12
Stub Drain, 1" diameter.....	0	1.2	0
Vacuum Breaker:			
Weighted Mechanical Actuation, Gasketed.....	1	0.7	0.7
Weighted Mechanical Actuation, Ungasketed.....	0	0.9	0
Total Deck Fitting Loss Factor (Ff) =			1109

Hammond Department of Environmental Management
Emission Inventory System Update (EIS)
Storage of Organic Liquids ... AP-42 ... Section 7

Appendix A
calculations

Minor Source Modification 089-15946-00239

Significant Permit Modification 089-16445-00239

General Information:

Company Name Shell Oil Products US
Year of Data review
Plant ID # T089-7323-00239

Tank Information:

Internal Float Roof Tank

Tank ID # D-3
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Tank Shell Height..... 50 feet
*Tank Shell Type (Welded or Riveted)..... Welded
*Tank Deck Type (Welded or Bolted)..... Welded
*Tank Rim Seal Type..... Mechanical Shoe with Rim Mounted Secondary
Tank Capacity (max liquid)..... 7,560,000 gallons

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RH 080802

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(go to cell G47)	
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(0.0 for welded deck, 0.34 for bolted deck)	
Sd = deck seam length factor =	0.2 ft/sqft
D, P*, Mv, and Kc are as defined above	

Ld =

$$\text{Deck Seam Loss} = (K_d) \cdot (S_d) \cdot (D^2) \cdot (P^*) \cdot (M_v) \cdot (K_c) = 0.000 \text{ lb/yr}$$

Tanks with welded decks do not have deck seam losses

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Roof Leg or Hanger Well:			
Adjustable.....	64	7.9	505.6
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Sample Pipe or Well:			
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Weighted Mechanical Actuation, Gasketed.....	1	0.7	0.7
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Total Deck Fitting Loss Factor (Ff) =			1109